TRACKING, LOCATING & MONITORING

SecureLocate™

SecureLocate™ provides an intuitive tracking platform to better fit the needs of commercial transportation and private security providers. Easily track & monitor thousands of devices from your laptop or Smartphone. It's near real time tracking, monitoring & location capabilities for land, sea and air assets using Satellite and GSM. It helps deliver measurable business and operational benefits by providing total visibility and control of mobile assets, with a combination of GPS/GPRS/SAT and GSM technology for fleet management purposes, vehicle tracking and personal tracking systems.

SecureLocate™ can be automated to generate reports to make transportation information available to you quickly and easily. These reports can be used as is, or can be customised to fit your business operation's needs. SecureLocate™ currently has in excess of 40 types of GPS transponders already integrated, all with the ability to send xml data feeds to anywhere in the world.

SecureLocate™ now provides in vehicle monitoring systems, capable of measuring engine and driver performance, troubleshooting problems, and observing how and when your vehicles are being driven. Whether you're a Fleet Manager, Health & Safety professional or Security Manager, one of our IVMS models can help you save time, money and improve safety and security.

KEY FEATURES

INTUITIVE USER WEB INTERFACE

MULTIPLE MAPPING FORMATS PROVIDE A CLEAR VIEW OF YOUR ASSETS

SCALABLE FLEET MANAGEMENT SOLUTIONS

2 WAY COMMUNICATION TO HANDHELD DEPLOYED ASSETS

PANIC ALERT NOTIFICATION TO THE APPLICATION AND USERS BY SMS & EMAIL

GEO-FENCING

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Harrier Multi Role Tracking Unit

The Harrier uses the Iridium Satellite network to deliver Short Burst Data (SBD) transmissions to the SecureLocate™ infrastructure allowing truly global tracking & monitoring. The portable 'walk-on' fit design, remote panic fobs, Voice & SMS capability coupled with the intelligent transmission of data based on speed make this unique device the best in its class.

Key Features

Features	Rechargeable internal battery allows up to 72 hours autonomous use. Portable antenna eliminates need for fixed installation, enabling 'walk-on, walk-off' use. This makes Harrier ideal for short-term deployments requiring global tracking and voice communication capability. Harrier is configured for use in a robust carry case designed for the most demanding operating environments.
Data transmission	Global, real time location and tracking data is sent back to SecureLocateTM via Iridium SBD. Harrier is also highly configurable, allowing the unit to intelligently send data dependant on vehicle speed thresholds to report updated information during key events.
Communication	Harrier has an integrated handset for making global Iridium Satellite voice calls to and from the device. The handset is also able to send and receive SMS messages over the Iridium network. An alternative audio break out kit, Bluetooth headsets and wireless PDAs are also optional communications devices available to meet all client requirements.
Alert button	Alert button allows the user to discreetly send an alert back to base informing them of a location. It can also automatically increase the frequency of the unit's location reports when this button is pressed to facilitate a managed response and invoke a voice call over either GSM or Iridium networks. Alert button has a range of up to 100 metres line of site and can also be supplied with a "Poll" location function and fully waterproofed variants.
Accessories	Bluetooth hands free audio kits, various audio handsets, wireless ruggedised waterproof PDAs for email communications and document storage, various audio break out kits, extended batteries and bespoke packaging requirements can also be supplied. Also, an extensive range of antenna for all applications can be supplied.

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inReach™

Global Handheld Communications and Tracking for Mobile Personnel

The InReach enables crucial two-way communication and asset tracking with 100% worldwide satellite coverage through the Iridium network

By itself, it's a versatile handheld communicator and tracker

- Pre-load check-in messages for pushbutton delivery
- Send to email addresses and cell phones
- Send SOS alerts with your GPS location; button lock prevents false alarms
- Receive delivery confirmation for all messages and SOS alerts via LED
- Integrated GPS supports automatic, manually-activated transmission and display of personnel location at user-selected intervals
- Low power consumption extends battery life

Add an Android phone or PN-60w GPS for two-way text messaging

- Compose and receive messages up to 160 characters
- Send to, receive from cell phones, email contacts
- Communicate with and see location of other inReach users
- Send SOS messages with situation reports, receive response ETA, exchange updates
- Cache detailed, up-to-date maps on Android or PN-60w

Communications

Provides 2-way communications with these two modes:

Standalone	1 button emergency SOS signaling, 1 button pre-loaded message sending, and 1-button automatic and manual remote tracking (personal location information) transmission. Delivery confirmation for all button-enabled SOS and pre-loaded messages via LED.
Coupled	Enables all standalone features. Also pairs wirelessly with either of the following: ▪ Smart phone - Currently supports Android platform, 2.2 or later - Bluetooth connection; - DeLorme "Earthmate" application (available at no charge from online Android Market) enables satellite communication functionality ▪ DeLorme PN-60W, handheld GPS connects via ZigBee (802.15.4 protocol) Both platforms support sending/receiving free form text messages to email, cell phones, and other inReach users. Two-way SOS communication is also supported. A motion graphic on the Android or PN-60w screen confirms delivery of sent messages. Remote tracking can be triggered from the Android's or PN-60w's screen interface.

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Emergency Alerts	Creates personal location information and transmits to first responders via single, guarded push button SOS button. The SOS button guard has a slide door to eliminate false alarms and accidental activations; complies with RTCM SC-128 for SENDS, preventing false alarms, and supports one-handed gloved use. Emergency messages are delivered to a pre-defined set of system users accountable for global SOS response. SOS functionality can be customized for unique user requirements (additional charge).
Power	Two AA batteries which are easily replaceable. Alkaline or NIMH can be used in an emergency. Sixty hours battery life when tracking at constant 10 minute tracking intervals Optional rechargeable sled with standard vehicle cigarette lighter adapter Average power usage: .1w; transmit power: 7w
Durability	The hardware has been successfully tested in the harshest conditions from the North Pole and South Pole to Mount Everest. inReach housing is shock- and vibration-resistant (MIL STD 810F), both waterproof and dustproof (IP67—totally protected against dust, submersible to 1 m for 30 minutes), and it floats.
Size and Weight	Size: 84.9 mm/3.3 in x 71.5 mm/2.8 in x 43 mm/1.73 in (H/W/D) without antenna (height w/antenna is 121.4 mm/4.77 in). Weight: Lightweight: 8 oz with 2 lithium batteries and compact enough to fit in the palm of a hand; clips to a pack strap, belt, front shirt pocket. Can be attached to dashboard for air or ground vehicle usage.
Environmental	Operating temperature: -20C to +70C Storage temperature: -45C to +85C

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Iridium Handheld Tracker - NANO

The Nano is a handheld, low-cost, satellite tracker device designed to operate with the Iridium low-Earth orbit satellite network. The Nano measures 4.0” x 2.2” x 0.8” and weighs ~6.5 ounces.

The Nano is designed with ultra-low power consumption electronics drawing less than 40A during sleep. With an internal 2.0 A-Hr rechargeable Li-Ion battery, it can send a position report every hour for up to two months (about 1,600 reports). The menu options are displayed in icons for quick access instead of line-text. The Nano is equipped with on-screen keyboards supporting transmission of free-text, canned messages and a combination of free-text and canned messages

The device can periodically wake up from sleep to send its position report to SecureLocate™ and the Panic SOS button can be used for immediate emergency / alert notifications.

Data is packaged in either standard or can be 256-bit AES encrypted format.

Key Features

Mechanical	Dimensions:	*4.0” L x 2.2” W x 0.8” D*
	Weight:	*~6.5 Oz*
	I/O Interface:	*USB*
	Cooling:	*Convection*
	Enclosure:	*Hard-Anodized Aluminum*
Electrical	Input Voltage Range:	*2.7VDC to 5.5VDC*
	Input Nominal Voltage:	*4.0VDC*
	Power consumption during standby:	*less than 40A @ 5.0VDC*
	Power Input Type:	*External DC power or internal battery*
Iridium RF Board	Operating Frequency:	*1616 to 1626.5 MHz*
	Link Margin Downlink:	*13 dB average*
	Link Margin Uplink:	*7 dB average*
	Average Power Transmission:	*1.0 W*
GPS Receiver	Receiver Type:	*1575.42 MHz (L1), 50-channel, C/A code*
	Accuracy:	*2.5 m CEP*
	Update Rate:	*4 Hz*
	Start-up Times:	*< 1 sec hot start, 29 sec warm start and 29 sec cold start*
	Sensitivity:	*160 dBm*

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2-Way Messaging	The NANO utilizes Iridium's satellite short burst data messaging services to provide two way communications between the monitoring application (SecureLocate™) and the unit.	
Environmental	Operating Temperature:	*40oF to +185oF (40oC to +85oC)*
	Operating Humidity:	*< 75% RH*

APPLICATIONS

Personal tracking unit in areas where there is no GSM coverage and where a simple to operate device is required.

- Appropriate for use by users with limited knowledge of PDAs or tracking solutions.

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SAT 202 - Satellite Terminal

The SAT-202 satellite terminal is a multi-purpose satellite terminal for tracking and monitoring high-value assets like vehicles, vessels, cargo and personnel. The SAT-202 uses the Inmarsat constellation of satellites employing the IsatM2M standard. The device automatically selects the most appropriate satellite and regularly transmits its location and any additional message data via secure systems.

The SAT-202 terminal can be used in all environments and is favoured in remote regions where terrestrial communication cannot be relied upon. Compact in size, the SAT-202 provides global coverage and can be programmed to send and receive customized data from external sensors – including temperature, humidity, vibration, and shock.

The SAT-202 terminal has three fully configurable inputs/outputs for sensor monitoring, and one open drain output suitable for driving relays and other indicators. The data-logging function includes GPS positions, transmissions and data for more than 6,500 entries that are accessible locally via the serial port. All transmissions are logged with a record of the time the message was created and if applicable, when it was transmitted.

Key Features

- Global Coverage:
- Inmarsat and GPS Connectivity:
- Affordable and Reliable:
- Flexible Mapping:
- Multiple I/O Ports.
- Optional Alert Button:

TAM-242 Technical Specifications

Physical	
Dimensions	*112mm x 46mm (4.4˝ x 1.8˝)*
Weight	*350g, (12.3 oz) (excluding cable)*
Mounting	*12-way plug*
Environmental	
Operating Temperature	*-40°C to +70°C (-40°F to +158°F)*
Humidity	*≤ 95% @ +40°C (+104°F)*
Vibration & Shock	*Meets Inmarsat-D & EN60945 requirements*
IP Rating	*IP66*
Power	
Sleep	*0.75mW*
Receive	*1W (incl. GPS)*
Slotted Receive	*50mW (effective continuous receive power)*
Transmit	*6W*
Power Supply Voltage	*9.6V to 32V 'smoothed' DC*

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SATELLITE

Interfaces	
Serial Interface	*Asynchronous serial RS232*
Baud Rate	*4800 or 9600 bps*
Parity/Data Bits/Stop Bits	*N, 8, 1*
Configurable Inputs/Outputs	*Three*
Open Drain Output	*250mA max. sink current*
Satellite Connectivity	
Transmitter	*EIRP: 0-9dBW*
	Tx Burst Duration: 2s or 8s (auto select)
	Message length: Standard burst up to 84 bits, Double burst up to 170 bits
Receiver	*G/T: ≥-25dB/K at EL = 30°*
	User data rate: ~36 bits per second
Elevation Angle	*0° - 90°*
Frequency Range	*Transmit: 1626.5-1660.5 MHz*
	Receive: 1525.0-1559.0 MHz
	GPS: 1575.42 ± 1.0 MHz
Message Latencies	*Poll/Response: up to 1 minute (typically less)*
	Time to first transmission: up to 45 seconds
	Forward message delivery: up to 45 seconds
	Return message delivery: up to 20 seconds
GPS	*Channels: 50*
	Typical time to first fix:
	Cold Start: <29 seconds
	Hot Start <1s (GPS was off for less than 2 hours)
	Typical position accuracy (SA Off): 2.5m (8ft) (CEP, 2D)

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Capabilities / Applications	
Custom Features	*Advanced scripting capabilities enable custom features and functionality*
Geofencing	*Alert areas, Safe Areas, Route corridors, Curfews, Waypoints, Checkpoints, Overdue and more.*
Third-party Connectivity	*Can be integrated with existing ERP systems*
Certifications	
Inmarsat Type Approval	*Yes*
FCC	*Yes*
CE	*Yes*
EN60945	*Yes*

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Shout TS (Touch Screen)

The SHOUT TS is the third-generation handheld satellite tracker and messaging device. It is the SHOUT nano with a touchscreen allowing quick access to the menus and ease of entering text via on-screen keyboards.

Similar to the nano, the TS is designed with ultra-low power consumption electronics drawing less than 35µA during sleep. With an internal 1.95 A-Hr rechargeable Li-Ion battery, it can send a position report every hour for up to two months (about 1,500 reports). The device can periodically wake up from sleep to send its position report to a command centre. A guarded 911 button is used for immediate emergency/alert notifications.

Data is packaged in either standard or 256-bit AES encrypted 10-byte, 30-byte or PECOS format.

Key Features

Dimensions	▪ 104 mm x 58 mm x 23 mm ▪ (4.1" x 2.3" x 0.9")
Weight	▪ 204 g (7.2 oz)
Battery	▪ Rechargeable Li-Ion ▪ 1.95 A-Hr Single Cell ▪ 3.6VDC to 4.2VDC
I/O Interface	▪ Standard USB
Software Interface	▪ AT Commands through USB
Operating Temp	▪ –40°C to +85°C (–40°F to +185°F)
Operating Humidity	▪ < 75% RH
Operating Frequency	▪ 1616 to 1626.5 MHz
GPS Frequency	▪ 1575.42 MHz (L1 carrier)

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SX1 – SAT Asset Tracker

SecureLocate™ launches the SX1, which operates on Globalstar's Low Earth Orbit (LEO) simplex satellite data network; the SX1 provides GPS visibility, event monitoring and remote asset data on a near global basis. Ideal for low volume messaging with mission critical data, the SX1 provides commercial and government customers with the most cost-effective satellite solution available for both fixed and mobile applications such as intermodal shipping containers, trailers, buoys and barges.

The SX1 will carry the highest environmental ratings available for any satellite or terrestrial tracking device, by receiving HERO (Hazards of Electromagnetic Radiation to Ordnance) Certification and meeting or exceeding 16 methods within the MIL-STD 810F requirements, making it the most rugged satellite tracking tag available today. Its compact size makes it ideal for almost any container or asset and is fully integrated into the SecureLocate™ ITV platform.

Physical	▪ Dimensions - 8.25" x 3.25" x 1" ▪ Weight - 13 ounces
Approvals	▪ Radiated Emissions - FCC Part 15 and 25 verified transmitter, Industry Canada, COFETEL, CE Notified Body Mark
Safety Approval	▪ U.S. UL 60950, U.S. UL 913, Class 1, Division 1 (Groups A, B, C, D) ▪ INTRINSIC SAFE OPERATION
Environmental	▪ Testing per SAE J1455 4.1.3.1 and MIL 810F 4.5.2 ▪ 100% at 50 C, Salt, Fog Testing per MIL STD 810 ▪ Testing per MIL STD 810, SAE J1455, and EIC 60521 ▪ IP68 and NEMA 6P
Transmitter	▪ Frequency 1611.25 to 1618.75 MHz - Simplex ▪ Protocol - Modulation - Direct Sequence Spread Spectrum (DSSS) ▪ Maximum Tx Power - 22dBm EIRP ▪ Maximum Tx Time - 1.4 Seconds/9 bytes ▪ Antenna - Dual Mode (Satellite--GPS) ▪ Packet Size - 9 Bytes

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Sensor Information	▪ Motion - Internal ▪ Sensor Interface - USB HID ▪ Integrated - Dry Contact
Power	▪ Battery - Internal, Ultrasonically Welded Lithium Pack - Primary ▪ 3200mAHr 6V DC ▪ Battery Life Up to 4000 messages ▪ Replacement - Field replaceable without device removal from asset ▪ Line Power Cable - Standard, via USB Interface
Mounting Options	▪ Tape, Mounting Sled, Screw
Accessory Types	▪ Programming Tools and Cables, Mounting ▪ Accessories, Sensor Cables, Line cables, Security Screw and Tools

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TAM-212 - Satellite Terminal

The battery-powered TAM-212 satellite terminal allows tracking and monitoring of fixed and mobile assets such as trailers, containers, tanks and railcars, even in the most remote and hostile places in the world.

Once an asset has been equipped with a TAM-212 and deployed in the field, the terminal automatically selects the most appropriate satellite and regularly transmits its location and any additional message data via secure systems. This slimline solution requires no external power source as an internal battery will provide up to five years of maintenance-free operation.

Like many terminals, the TAM-212 uses the Inmarsat constellation of satellites and the IsatM2M standard. This connectivity method delivers an affordable and reliable direct-to-desktop information service with fast and easy-to-use message handling. In addition to using fixed mounting points, the TAM-212 incorporates strong magnetic feet, making it possible for users to quickly install and de-install the device without damaging any asset surfaces.

Key Features

- Global Coverage: Offers secure satellite connectivity worldwide
- Always Connected: Tracks and monitors mobile assets at any time, anywhere in the world
- Long-lasting Battery: Offers up to five years of maintenance-free operation
- Affordable and Reliable: Field-proven and cost-effective tracking solution for a wide range of applications
- Flexible Mapping: Facilitates viewing of assets using Google and Bing maps in a standard browser, or integrates data feeds into custom enterprise resource planning (ERP) solutions
- Multiple I/O Ports: Connected external sensors can report additional data, e.g., speed, tire pressure and fuel consumption; ideal for fleet management applications
- Optional Alert Button: Convenient in-vehicle button allows drivers to immediately warn others of dangers

TAM-242 Technical Specifications

Physical	
Dimensions	*247 mm x 178 mm x 48 mm (9.7˝ x 7.0˝ x 1.9˝)*
Weight	*1.5 kg (3.3 lbs)*
Mounting	*Screws, magnetic feet*
Environmental	
Operating Temperature	*-35°C to +55°C (-31°F to +131°F)*
Humidity	*≤95% @ +40°C (+104°F) non-condensing*
IP Rating	*IP66*

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SATELLITE

Interfaces	
Serial Interface	*Asynchronous serial RS232*
Baud Rate	*9600 bps*
Parity/Data Bits/Stop Bits	*N, 8, 1*
Satellite Connectivity	
Transmitter	*EIRP: 0-9dBW*
	Modulation 2 level FSK: 20 Hz tone spacing
	Tx burst duration: 2s or 8s
Receiver	*G/T: ≥-25dB/K at EL = 30°*
	Modulation: 32-ary FSK, 20Hz tone spacing
Elevation Angle	*0° - 90°*
Frequency Range	*Transmit: 1626.5-1660.5 MHz*
	Receive: 1525.0-1559.0 MHz
	GPS: 1575.42 ± 1.0 MHz
GPS	*Channels: 50*
	Typical time to first fix:
	Cold Start: <29 seconds
	Hot Start <1s (GPS was off for less than 2 hours)
	Typical position accuracy: (SA Off): 2.5m (CEP, 2D)
	Dynamic capability:
	Velocity 515 m/s maximum
	Acceleration ≤4g
	Maximum update rate 1s

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TAM-242 - Satellite Terminal

The TAM-242 satellite terminal allows users to track and monitor fixed and mobile assets such as trailers, containers, tanks and railcars, anywhere in the world. This slim line solution requires no external power source, as the standard internal battery will provide at least one month of maintenance-free operation (depending on reporting intervals).

The flexible TAM-242 generates highly accurate GPS position reports, sends secure position logs and offers configurable reporting intervals and remote polling. As with other tracking's terminals, the TAM-242 uses the Inmarsat constellation of satellites and the IsatM2M standard. This connectivity method offers an affordable and reliable di¬rect-to-desktop information service with fast and easy-to-use message handling.

In addition to using fixed mounting points, the TAM-242 incorporates strong magnetic feet, making it possible for users to quickly install and de-install the device, without damaging any asset surfaces.

The TAM-242 satellite terminal can be connected to a number of optional sensors, collecting a wide range of data for applications like cargo container intrusion detection (e.g., temperature, humidity, vibration, and shock) and vehicle fleet usage patterns (e.g. speed, braking, fuel consumption, and tire pressure).

When the TAM-242 is delivered with external sensors and cables, the solution is referred to as the TAM-252.

Key Features

- Global Coverage:
- Always Connected:
- Affordable and Reliable:
- Flexible Mapping
- Easy Installation:
- Multiple I/O Ports:
- Optional Alert Button:
- Optional Sensors (TAM-252):

TAM-242 Technical Specifications

Physical	
Dimensions	*247 mm x 178 mm x 48 mm (9.7˝ x 7.0˝ x 1.9˝)*
Weight	*1.5 kg (3.3 lbs)*
Mounting	*Screws, magnetic feet*
Environmental	
Operating Temperature	*-35°C to +55°C (-31°F to +131°F)*
	Charging temp: 0°C
Humidity	*to +45°C (32°F to +113°F)*
IP Rating	*≤95% @ +40°C (+104°F) non-condensing*
	IP66

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Interfaces	
Serial Interface	*Asynchronous serial RS232*
Baud Rate	*9600 bps*
Parity/Data Bits/Stop Bits	*N, 8, 1*
Satellite Connectivity	
Transmitter	*EIRP: 0-9dBW*
	Modulation 2 level FSK: 20 Hz tone spacing
	Tx burst duration: 2s or 8s
Receiver	*G/T: ≥-25dB/K at EL = 30°*
	Modulation: 32-ary FSK, 20Hz tone spacing
Elevation Angle	*0° - 90°*
Frequency Range	*Transmit: 1626.5-1660.5 MHz*
	Receive: 1525.0-1559.0 MHz
	GPS: 1575.42 ± 1.0 MHz
GPS	*Channels: 50*
	Typical time to first fix:
	Cold Start: <29 seconds
	Hot Start <1s (GPS was off for less than 2 hours)
	Typical position accuracy (SA Off): 2.5m (8ft) (CEP, 2D)
	Dynamic capability:
	Velocity 515 m/s maximum
	Acceleration ≤4g
	Maximum update rate 1s
External Sensors	
TAM-252 Solution	*TAM-252 external sensor solution includes:*
	Remote terminal with a range of wired sensor options: temperature, humidity, vibration, shock, light, door open etc.
	A satellite airtime package to suit your needs
	Secure web-based data access
	SATTAG Version 3 interface to DISA GEX/IRRIS/iSDDC A range of power supplies

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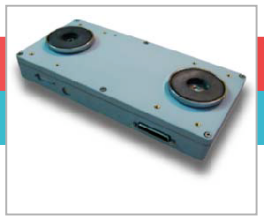

VERSA - Satellite Terminal

SecureLocate™ launches the GlobalTrak Versa as a flexible cargo tracking, security, and condition-monitoring device. Versa enables asset position and monitoring through GSM/3G cell, satellite (GlobalStar or Iridium), ZigBee, assisted GPS, and optional integrated active or passive RFID reader. Dual SIM cards utilize local communication networks to reduce operating costs.

The internally mounted Versa is fully compliant with the USC Gen 2 Satellite Enabled Tracking Intrusion Detection (SEITD) Tag requirements.

The Versa device uses the SecureLocate™ application in conjunction with all communication methods to provide a robust and versatile asset monitoring solution, and well as interfacing to the DISA-GEX, IRRIS, and related government ITV servers. The thin, low profile enclosure facilitates mounting beneath and between container or trailer locking bars for the external mount; the internal mount version fits neatly inside the container with a small exposed external antenna.

The advanced sensor suite detects intrusion and tampering with high precision by measuring door position, mount status, temperature, light, container properties, motion, location, speed, direction, and acceleration.

Key Features

Specifications	▪ Thin, Low-Profile Enclosure, Internal or External Mount ▪ Flexible Dual Mode Cellular and LEO Satellite Communications ▪ Integrated RFID Reader Option ▪ Quick & Simple Installation ▪ Interfaces to DoD ITV Servers
	Enclosure: 297mm x 133mm x 38mm (11.0” x 5.25” x 1.5”) **Mass:** 907 g (≤ 32.0 oz with batteries, without bracket)
	Battery: LI-ION Rechargeable, 8000mAh, 3.6V **Life Expectancy:** 2 years at I day reporting, 90 Days at 15/30 minute reporting, 15 Days at 5-minute reporting
	Door Intrusion: Advanced Sensor based on light, color, material **Motion Detection:** Integral Motion sensor (Start/Stop). Independent of accelerometer.

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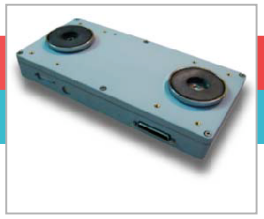

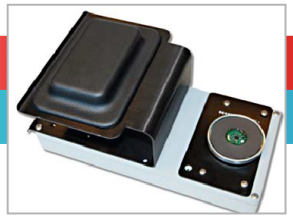

Mounting: Exterior Mount, Interior Mount (with bracket).

Certifications: FCC part 15 and part 25,ETSI EN 300 328,

ETSI EN 301 489-1, IP-67, HERO, HERF,

HERP (2011)

Satellite Communications: Globalstar or Iridium LEO (option selected at factory)

Cellular Communications: Quad-Band GSM for worldwide coverage

Dual SIM to reduce operating costs 2-way communications – upload & download GPRS & SMS with automatic least-cost routing

ZigBee Wireless LAN: Communicates with all GT Wireless Sensors Mesh networking available 868/915 MHz & 2.4 GHz ZigBee Wireless

Tx power, max: 1000 mW (USA), 100 mW (Europe), 10 mW (Japan)

Tx power, min: 1 mW

GPS Receiver: Cold Start: <45 seconds TTFF (95%) Hot Start: <10 seconds TTFF (95%) <2.5-meter accuracy

Interfaces / Expandability: 18-pin Conxall connector, Up to 6 external RF connectors, 3 digital Inputs, 2 analog inputs

External charging power: 7 – 75 V Optional reefer power output interface: 24-VAC

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FLEX – SATILITE Asset Tracker

FLEX provides the necessary supply chain fidelity, asset security and systems monitoring that are important for both private and public sector organisations. Importantly, the need for this information on fixed or mobile assets does not end where cellular coverage does. Delivering years of uninterrupted service on a single and easily field-replaceable battery, the Satellite FLEX can be installed, activated and operational in less than one minute and is fully integrated into SecureLocate™

Physical	▪ Dimensions - 3.9” x 3.25” x 2” ▪ Weight - 14 ounces
Approvals	▪ Radiated Emissions - FCC Part 15 and 25 verified transmitter, Industry Canada, COFETEL, CE Notified ▪ Safety Approval - U.S. UL 60950, U.S. UL 913, Class 1, Division 1 (Groups A, B, C, D) INTRINSIC SAFE OPERATION
Environmental	▪ Temperature - -20 to 85 C ▪ Humidity - 95% at 50 C ▪ Vibration & Shock - SAE J1455 ▪ Type - Waterproof sonically welded enclosure
Transmitter	▪ Frequency - 1611.25 to 1618.75 MHz ▪ Protocol - Simplex ▪ Modulation - Direct Sequence Spread Spectrum (DSSS) ▪ Maximum Tx Power - 22dBm EIRP ▪ Maximum Tx Time - 1.4 Seconds/9 bytes ▪ Antenna - Dual Mode (Satellite--GPS) ▪ Packet Size - 9 Bytes
Digital Communications	▪ Programming Interface - USB HID Device, T-Wire
Sensor Information	▪ Motion - Internal ▪ Sensor Interface - USB HID ▪ Integrated - Dry Contact

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Power	▪ Battery - Internal, Ultrasonically Welded Lithium Pack - Primary 3200mAHr 6V DC ▪ Replacement - Up to 3000 messages ▪ Battery Life Field replaceable without device removal from asset
Mounting Options	▪ Tape, Mounting Sled, Screw
Accessory Types	▪ Programming Tools and Cables, Mounting Accessories, Sensor Cables, ▪ Line cables, Security Screw and Tools

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Galaxy GTP1000 - SAT Tracking

iridium Everywhere

Built from the combination of the best technologies on the market today, the Galaxy GTP1000 is a state-of-the-art global tracking and monitoring solution. This technology uses the Global Locating System (GLS) coupled with the world's only truly global satellite constellation by Iridium®.

When combined with a dramatically smaller device footprint and multi-year battery life, the GTP1000 is perfect for tracking mobile assets anywhere in the world. The self-contained GTP1000 can be easily installed on assets like trailers, containers, and construction equipment using two simple mounting brackets and four screws. A remote antenna feature (GTP1100) allows for stealth installation – leaving only a small antenna visible to the outside world.

The GTP1000 introduces instant installation verification, assuring that each device is installed and connected properly via built-in LEDs, eliminating any guesswork. An optional magnetic key allows users to check battery status and send a diagnostic message while in the field. Replacing batteries is simple because the GTP1000 is powered by off-the-shelf "AA" lithium batteries.

The GTP1000 was built to last. It's ruggedized, low profile, weather proof housing is designed to withstand the harsh environments of the transportation, intermodal, and construction industries. The device can also accommodate a suite of additional sensors, such as cargo, door and tire pressure, which cover a variety of security, environmental and operational reporting requirements.

TOTAL ASSET VISIBILITY THROUGH SECURELOCATE™

The GTP1000 is managed through the SecureLocate™ web application for tracking and monitoring. SecureLocate™ uses exception based reporting to help customers reduce capital expenditures, optimise asset utilization, eliminate "lost" assets, track stolen assets, and improve customer service.

The GTP1000 provides:

- In-Transit Visibility – it helps companies better support just-in-time logistics and increases customer satisfaction and trust by demonstrating continuous visibility of remote assets.
- Dispatch Optimization – it reduces capital expenses for asset purchases and leases, reduces fuel and staffing costs, and ensures optimal operating conditions and efficiency.
- Remote Monitoring & Control – it helps reduce equipment costs, improves maintenance planning, limits cargo liabilities, and pre-empt operational failures.

  Safety & Security – it provides constant monitoring of the asset location, provides enhanced security for high-value cargo and improves stolen asset recovery.

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GTP1000 Galaxy **GTP1000 / GTP1100**	▪ True global coverage ▪ Multi-year battery life ▪ Installation verification in the field ▪ Compact design ▪ Powerful GLS technology
Product Datasheet	▪ Hardware Specifications ▪ PHYSICAL ▪ Dimensions (L x W x H): 12.45 in x 3.56 in x 1 in (316.2 mm x 90.4 mm x 25.4 mm) ▪ Housing Material: LEXAN 943 Polycarbonate Plastic ▪ Weight: 1.21 lb (550 g) with batteries (no mounting brackets) ▪ Environmental ▪ Operating temperature: –40°C to 70°C ▪ Storage: –55°C to 85°C (excluding batteries) ▪ Vibration: Random vibration from 10 to 500 Hz per MIL-STD-810F Figure 514.5C-1 ▪ “U.S. Highway Truck Vibration Exposure” ▪ Humidity: MIL-STD-810F, Method 5.4 for six full cycles as described in Figure 507.4-1 ▪ Shock: MIL-STD-810F, Method 516.5 Procedure I using an impact having a shock response spectrum ▪ equal to that labelled “Functional Test for Ground Equipment” in Figure 516.5-8 of MIL-STD-810F ▪ Drop: MIL-STD-810F, Method 516.5, Procedure IV ▪ Impact: ASTM D5628 ▪ Salt Fog: MIL-STD-810F, Method 509.4 ▪ Water Spray and Steam Cleaning: SAE J1455 Section 4.5 ▪ Dust and Sand Bombardment: MIL-STD-810F, Method 510.4 ▪ Solar Load and UV Exposure: MIL-STD-810F, Method 505.4 Procedure I, Cycle A1 and fifty-six ▪ 24-hour cycles per Procedure II ▪ Dust/Water Ingress Protection: IP67 ▪ Power: 6 AA Lithium Iron Disulfide batteries 4.5 V, 6 Ampere-hours ▪ Radio Performance

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- Frequency (MHz): 1575.42 MHz GLS Receive 1616.0 to 1626.5 MHz L Band Transmit/Receive
- Transmit power EIRP: 2.74 W peak
- Inter faces
- I/O Connector: 18 Pin Connector
- Serial Port(s): RS485, RS232
- Inputs/Outputs: 2 open/closed switch connections, 2 open/closed control lines
- Smart Sensor Tracking (SST): Accelerometer
- Remote Antenna (GTP1100 only): SMA-Female
- Certi fications
- FCC Part 25, CE, Industry Canada RSS-170, Pb-Free, RoHS Compliant
- Remote Ante nna (GTP1100 o nly)
- Dimensions (L x W x H): 2.80 in x 2.80 in x 0.92 in (71.1 mm x 71.1 mm x 23.4 mm)
- Housing Material: EXL 9330 or LEXAN 943 Polycarbonate Plastic
- Weight: 0.69 lb (310 g)
- Operating temperature: –40°C to 70°C
- Storage: –55°C to 85°C
- Dust/Water Ingress Protection: IP67
- Coaxial cable: RG-223/U, 10 foot length, bottom egress, SMA-Male, VHB mount (Optional cable
- side exit is available)
- Galaxy GTP1000 / GTP1100
- © 2011 SkyBitz, Inc. www.skybitz.com 1-877-275-9248
- PD_GTP1000_v9_121311

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Iridium Extreme 9575 – SAT phone

The Iridium Extreme is the toughest handset ever from the only company that offers real global, real mobile, real reliable communications. Engineered with more features and more accessories than any other satellite phone on the market, Iridium Extreme puts more innovative capability — and more ways to connect than ever before — into the hands of people everywhere.

From desert to mountain, savanna to tundra, Iridium Extreme puts more powerful capability into the hands of people, around the world. It has more features and accessories than any other satellite phone. It is the only one with real time tracking. It is the only satellite phone with GPS-enabled SOS with emergency services supported by SecureLocate™.

No other SAT phone in the world has more guts or grit than Iridium Extreme. It is the first phone with military-grade 810F durability. It is dust proof, shock and jet-water resistant.

Key Features

Specifications	▪ Dimensions: 140 mm (L) x 60 mm (W) x 27 mm (D) ▪ Weight: 247g
Duration	▪ Standby time: Up to 30 hours ▪ Talk time: Up to 4 hours
Display	▪ 200 character illuminated graphic display ▪ Volume, signal and battery strength meters ▪ Illuminated weather-resistant keypad
Calling Features	▪ Integrated speakerphone ▪ Quick-connect to Iridium voice mail ▪ Two-way SMS and short email capability ▪ Pre-programmable International Access Code (00 or +) ▪ Mailbox for voice, numeric & text messages ▪ Selectable ring and alert tones (8 choices)
Memory	▪ 100-entry internal phonebook, with capacity for multiple phone numbers, email addresses and notes ▪ Call history retains received, missed and dialled call
Usage Control Features	▪ User-configurable call timers to manage costs ▪ Keypad lock and PIN lock for additional security

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BlackBerry™ Tracking

(On any GPS Enabled BlackBerry™ Smartphone)

BlackBerry Tracking using the SecureLocate™ installation via the internet or through direct access to the device enables immediate tracking & monitoring in real time. Configurable reporting intervals, configurable panic button and privacy mode allows each client to set his own preferences.

The service can use GSM or Satellite networks to provide truly global coverage. In the event of a distress alarm, audible and visual notifications to the SecureLocate™ platform.

Key Features

	▪ Tracking can be turned on or off when needed with a click of a button ▪ Works with any GPS enabled BlackBerry handset ▪ Full Email, SMS, BlackBerry messenger ▪ Discreet Alert Button integrated with SecureLocate™ providing duplex voice communications ▪ Mapping software for personal navigation (on selected models) ▪ Can be configured and set up remotely ▪ Built-in GPS capabilities ▪ Camera (2.0 MP) ▪ Multimedia player ▪ Browser ▪ Operates on GSM/GPRS/Edge Networks ▪ Quad band for global roaming ▪ 96 hour standby time ▪ 48 hour battery life on full usage ▪ Tracking Software is extremely discreet and can be 'hidden' on the device
Portability	The size, weight and simplicity of the BlackBerry enable the unit to be carried in a pocket or mounted on a vehicle dashboard.
Data transmission	Operates on GSM/GPRS/Edge Networks; Location & tracking data is sent back to SecureLocate™ via data messages using GPRS/EDGE & SMS via GSM: 850, 900, 1800, 1900.
Alert button	Configurable alert button on the phone is discreet but activates all managed responses.
Accessories	Bluetooth headset & other Bluetooth accessories, Vehicle mounting kit, car charger, wall charger, MicroSD Card, Wi-Fi, MP3, Media Player, Headphones, Google Maps.

Application

- Tracking executives operating within GSM quad band coverage with normal phone functionality.
- Providing a panic button facility and Direct Push Email.
- Discreet tracking using a device that operates as a Smartphone.

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NAL - SHOUT - GSM

iridium

SecureLocate™ launches the SHOUT GSM is a dual-mode Iridium/GSM tracker and messaging device. It has a touchscreen allowing quick access to the menus and ease of entering text via on-screen keyboards.

Similar to the SHOUT TS, the SHOUT GSM is designed with ultra-low power consumption electronics drawing less than 35µA during sleep. With an internal 1.95 A-HR rechargeable Li-Ion battery, it can send a position report every hour for up to two months (about 1,500 reports). The device can periodically wake up from sleep to send its position report to SecureLocate™ tracking application.

A guarded 911 button is used for immediate emergency/alert notifications. Data are packaged in either standard or 256-bit AES encrypted 10-byte, 30-byte or PECOS format.

Key Features

Specifications	
	Dimensions: 104 mm x 58 mm x 23 mm (4.1" x 2.3" x 0.9") **Weight:** ~221 g (7.8 oz) **Battery:** Rechargeable Li-Ion 1.95 A-Hr Single Cell 3.6VDC to 4.2VDC **I/O Interface:** Standard USB and Bluetooth **Software Interface:** AT Commands through USB **Operating Temp:** –30°C to +70°C (–22°F to +158°F) **Operating Humidity:** < 75% RH

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Operating Frequency:

1616 to 1626.5 MHz

GSM Frequency:

850 / 900 / 1800 / 1900 MHz

GPS Frequency:

1575.42 MHz (L1 carrier)

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NOMAD – GPS Phone

NOMAD is a powerful GPS phone for personal tracking. With superior receiving sensitivity, fast TTFF and cellular engine, its location can be monitored in real time or periodically reported by a backend server or other device. Based on the embedded Track protocol, the NOMAD can communicate with the SecureLocate™ server through the GPRS / GSM network to transfer reports of emergency / SOS, Geo-fence boundary crossings, low battery or scheduled GPS position among other advanced features.

Users can easily to dial one of the four preset phone numbers by using one of the four quick dial buttons or the SOS button.

Key Features

Features	▪ Quad-band GSM/GPRS frequencies 850/900/1800/1900MHz ▪ Built in uBlox chipset with -162 dBm tracking sensitivity, -148 dBm autonomous sensitivity for fast TTFF and high accuracy ▪ White OLED display (128*96) ▪ Embedded full-featured @Track protocol ▪ Low power consumption, long standby time with internal battery ▪ Built in 3D motion sensor for power saving and motion detection ▪ Built in GSM / GPS antennas ▪ Certified with PTCRB FCC CE GCF
GSM Specifications	Frequency Quad-Band: 850/900/1800/1900MHz Compliant to GSM phase 2/2+ ▪ Class 4 (2W @ 850/900MHz) ▪ Class 1 (1W @ 1800/1900MHz)
GPRS	▪ GPRS multi-slot class 12 ▪ GPRS mobile station class B
Interfaces	▪ Mini USB Interface For external power and configuration ▪ Power Button Power on and off ▪ SOS Button SOS/Emergency alarm ▪ Volume Adjustable Buttons 2 side buttons to increase/ decrease volume ▪ Dial, Reject Button For dialing and rejecting incoming calls or menu selection ▪ 4 Preset Number Buttons For quick dialing of preset numbers or menu selection

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General Specifications	▪ Dimension 87mm* 44.5mm * 17mm ▪ Weight 75g ▪ Battery Li-Polymer 850 mAh ▪ Standby Time without reporting: 120 to 150 Hours
5 minutes reporting: 50 to 60 Hours	
10 minutes reporting: 70 to 80 Hours	▪ Operation Voltage 5V DC ▪ Operation Temperature -20□~+55□ ▪ Bluetooth Optional, for Bluetooth earphone or healthy care device
Air Interface Protocol	▪ Transmit Protocol TCP, UDP, SMS ▪ Scheduled Timing Report Report Position follow the pre-set fix interval and report interval
Geo-Fence	▪ 5 Geo-Fence regions can be defined ▪ Low Power Alarm Alarm when backup battery is low ▪ Power On Report Report when the device is powered on ▪ Power Off Report Report when the device is powered off ▪ SOS/Emergency Alarm SOS alarm when the SOS key is pressed ▪ Fall Detection Falling alarm based on built in 3D motion sensor

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Romad - Personal GSM Safety Phone

Romad Personal Safety Phone (RSP) represents the next generation in mobile design and location technology.

The Romad RSP-100 is small, slim line and lightweight. Measuring only 90mm in height, 46mm in width and a depth of 17.5mm makes the unit compact and comfortable. Weighing only 62.5g with the standard battery attached means that the device can be worn on a lanyard, or placed in a mobile case.

Simple over the air commands are used to configure the device, providing 4 pre-programmable speed dial numbers and a rugged SOS alert button. An additional 15 numbers can be stored and accessed through the Phonebook, making a total of 20 numbers (including the SOS number). The screen is clear and defined providing 96x25 pixel lines of text and permanently displays battery and signal strength indicators.

It's strong build quality, high quality finish, features and simple operation ensures that the RSP-100 is more than suited for deployment in any Lone Worker, Security and workforce management environment.

Key Features

Features

- Call up to 20 pre-set numbers
- Full integration with SecureLocate™
- Pre Alert
- SOS Alert
- Low Battery Alert
- Non-Movement Detection Alert
- Simple set-up and administration
- User and Group Profiling

Model:	*Romad RSP-100*
Technology:	*GSM 900/1800, GPRS and GPS (SiRF Star III LP)*
Dimension:	*90mm x 46mm x 17.5mm*
Weight:	*42.5g without battery, 62.5g with battery*
Screen:	*Main LCD Display 96 x 25 pixels*
Colour:	*Black*
Battery:	*720mAh Li-Ion*
Stand-By:	*Up to 100 hrs Dependent on GSM and GPS operation*
Talk-Time:	*Up to 150 min Dependent on GSM and GPS operation*
Package:	*Romad RSP-100 Personal Safety Phone* *Battery, Neck Strap, Travel Charger, Belt Clip, CD User Manual, Quick Start Guide*

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Sonim XP3340 SENTINEL

Built for Life – the Sonim XP3340 SENTINEL Z1 is the unparalleled intrinsically safe lone worker solution. Together with leading lone worker specialists, it provides an ultra-rugged end-to-end safety solution that also includes an emergency response call Centre and uses the voice and data capabilities of a mobile network operator. Custom designed for workers in dangerous, potentially explosive areas, the specialised technologies found in the XP3340 SENTINEL Z1 will keep workers safe while maintaining compliance with all hazardous area requirements.

The Sonim XP3340 SENTINEL Z1 includes advanced and highly configurable man-down accelerometer technology. Configured over-the air by the partner monitoring server to match the end user's specific work scenario, the man-down sensor is capable of detecting impact, free-fall, prolonged tilt and no-movement at various thresholds; field proven to detect specific risk events whilst minimizing false alarms. Fully configurable dedicated amber and green buttons enable the key safety functions such as requesting enhanced monitoring, sending a GPS location or call the Emergency Response Centre using SecureLocate™.

- Advanced man-down accelerometer sensor.
- Fully water submersible (IP-68 rated) and certified for 2 meter drops onto concrete
- Extreme software reliability - tested through thousands of iterations.
- The industry's longest battery life of up to 29 hours of GPS tracking time.
- Backed by Sonim's industry-leading 3-Year Comprehensive Warranty covering even accidental damage.

Key Features

- Sophisticated man down sensor (3 axis accelerometer, configurable with 4 states) to minimize false alarms
- High GPS performance with faster position xes, high accuracy & sensitivity
- 2 inch bright (typ. 280cd/m²) high-resolution display for high visibility
- Noise cancelling microphone
- A-GPS (SUPL support)
- JAVA MIDP 2.0/CLDC 1.1device
- 2 MP camera with LED Flash
- LED torch light
- MicroSD card slot (up to 16 GB card)
- FM Radio

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GSM

	▪ Media Player ▪ MediaTek MT6235 platform ▪ GSM quad-band (850,900, 1800,1900 MHz) ▪ GPRS, EDGE class 12 ▪ Bluetooth (2.1) with DUN, SPP, HSP, HFP, OPP, PBAP ▪ WAP 2.0 (XHTML) ▪ SMS, MMS (text, image, audio, video) - up to 3000 messages ▪ PC Tools, for contact and calendar synchronisation with MS Oce ▪ Support for up to 21 languages
Core Platform / Functions	▪ MediaTek MT6235 platform ▪ GSM quad-band (850,900, 1800,1900 MHz) ▪ GPRS, EDGE class 12 ▪ Bluetooth (2.1) with DUN, SPP, HSP, HFP, OPP, PBAP ▪ WAP 2.0 (XHTML) ▪ SMS, MMS (text, image, audio, video) - up to 3000 messages ▪ PC Tools, for contact and calendar synchronisation with MS O_ce ▪ Support for up to 21 languages
Battery	▪ 1750 mAh with 20 to 24 Hrs Talk Time, over 800 Hrs Standby Time ▪ Lone Worker: up to 29 hours for GPS tracking
Physical Characteristics	▪ Size: 126mm x 60mm x 25mm ▪ Weight: 185 grams ▪ GCF/CE certifications ▪ 7 soft keys/10 programmable short-cuts ▪ 3.5mm waterproof headset and USB data ports (proprietary cable) ▪ Dedicated volume keys
Audio System	▪ One single 23mm diameter water resistant speaker specially ▪ designed for higher volume transmission and reception ▪ Omni-directional microphone with noise cancellation

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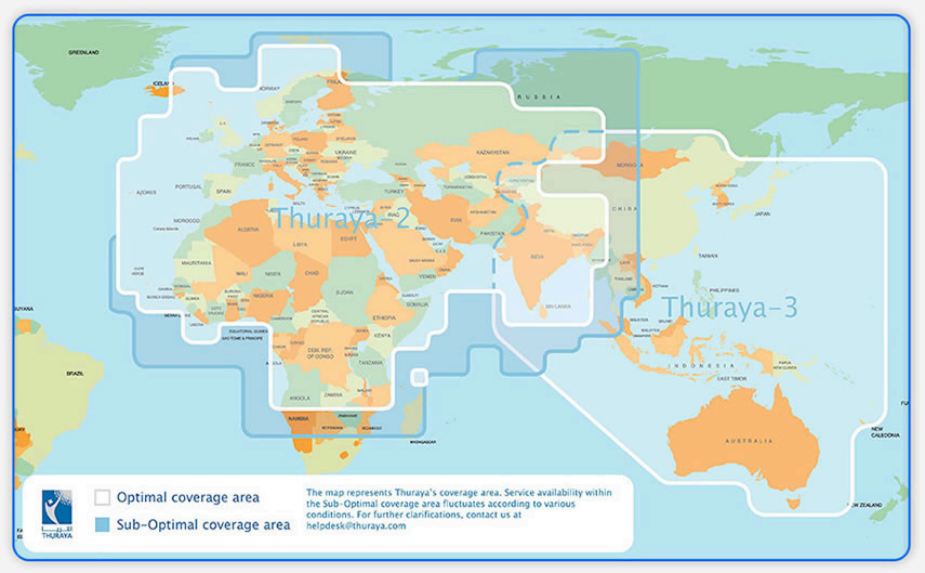
Thuraya XT – SAT Phone

Thuraya XT is the one of only a few satellite phone's in the world to meet the industry's highest criteria for splash resistance, dust resistance and shock proofing. Combining the reliability of its unparalleled phone functionality, with the dependability of Thuraya's network, Thuraya XT ensures you stay close.


Thuraya-2
Thuraya-3
Optimal coverage area
Sub-Optimal coverage area
The map represents Thuraya's coverage area. Service availability within the Sub-Optimal coverage area fluctuates according to various conditions. For further clarifications, contact us at helpdesk@thuraya.com

Wherever you are within Thuraya's extensive coverage area, however remote the location, Thuraya brings you close to where you need to be. Thuraya XT is ideal for anybody who moves around in areas where local networks are unreliable or non-existent. It's extremely durable design makes Thuraya XT ideally suited for use in tough environments.

Key Features

- Satellite telephony
- IP54/ IK03 standard
- Glare - resistant display with high contrast menu for easy readability in direct sunlight
- GPS functionality for way point navigation
- Messaging via SMS, email and fax
- Battery- saving technology – brightness sensor for the display to reduce battery consumption
- Organize including calendar, world time and alarm functions
- Perfectly balanced size - to weight ratio
- User- friendly menu structure with fast access to functions

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